AMENDMENTS TO THE SPECIFICATION:

On page 1, lines 10-13, please **replace** the paragraph beginning "[t]wo copies of the sequence listing...." with the following paragraph.

Two copies of the sequence listing (Copy 1 and Copy 2) and a computer readable form (CRF) of the sequence listing all on CD-ROMs, each containing the file named pa_00349.txt-pa_00349.rpt which is 20,112,035-19.928.021 bytes (measured in MS-DOS) and was created on December 31, 2001 May 04, 2001 are herein incorporated by reference.

On page 5, lines 18-24 through page 6, lines 1-2, please **replace** the paragraph beginning "[s]imilarity analysis includes database..." with the following paragraph.

Similarity analysis includes database search and alignment. Examples of public databases include the DNA Database of Japan (DDBJ)(www-ddbj.nig.ac.jp/) (www.ddbj.nig.ac.jp/): Genebank (www-ncbi.nlm.nih.gov/web/Genbank/Index.html) (www.ncbi.nlm.nih.gov/web/Genbank/Index.htlm): and the European Molecular Biology Laboratory Nucleic Acid Sequence Database (EMBL) (www-ebi.ac.uk/ebi docs/embl db.html) (www.ebi.ac.uk ebi docs embl db.html). A number of different search algorithms have been developed, one example of which are the suite of programs referred to as BLAST programs. There are five implementations of BLAST, three designed for nucleotide sequences queries (BLASTN, BLASTX, and TBLASTX) and two designed for protein sequence queries (BLASTP and TBLASTN) (Coulson, *Trends in Biotechnology*, 12:76-80 (1994); Birren, et al., Genome Analysis, 1:543-559 (1997)).

On page 7, lines 7-23, please **replace** the paragraph beginning "[h]omologues in other organisms...." with the following paragraph.

Homologues in other organisms are available that can be used for comparative sequence analysis. Multiple alignments are performed to study similarities and

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